

IN THE CLAIMS:

Please amend claims 1, 7, 9, 10, and 14-18 herein. Please cancel claims 4, 12, 13, and 19. Please note that all claims currently pending and under consideration in the above-referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Withdrawn and currently amended) An insulation material for use in a rocket motor, ~~comprising the insulation material consisting essentially of:~~
a low-density ethylene propylene diene monomer polymer;
at least one flame-retardant; and
a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride.
2. (Withdrawn) The insulation material of claim 1, wherein the at least one flame-retardant comprises at least one organic flame-retardant and at least one inorganic flame-retardant.
3. (Withdrawn and currently amended) The insulation material of claim 1, wherein the polymeric organic filler comprises a chlorinated hydrocarbon compound.
- Claim 4 (Canceled)
5. (Withdrawn) The insulation material of claim 1, wherein the polymeric organic filler comprises at least one chlorine atom per repeat unit.
6. (Withdrawn) The insulation material of claim 1, wherein the polymeric organic filler comprises polyvinyl chloride.

7. (Currently amended) A rocket motor, comprising:
an insulation material disposed between an inner surface of a case of the rocket motor and a propellant, the insulation material ~~comprising~~consisting essentially of a low-density ethylene propylene diene monomer polymer, at least one flame-retardant, and a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride.
8. (Original) The rocket motor of claim 7, wherein the at least one flame-retardant comprises at least one organic flame-retardant and at least one inorganic flame-retardant.
9. (Currently amended) The rocket motor of claim 7, wherein the polymeric organic filler comprises a chlorinated hydrocarbon compound.
10. (Currently amended) The rocket motor of claim 7, wherein the ~~polymeric organic filler comprises a noncyclic hydrocarbon~~ insulation material further includes at least one of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer.
11. (Original) The rocket motor of claim 7, wherein the polymeric organic filler comprises at least one chlorine atom per repeat unit.

Claims 12-13 (Canceled)

14. (Currently amended) A method of insulating a rocket motor comprising:
producing an insulation material ~~comprising~~consisting essentially of a low-density ethylene propylene diene monomer polymer, at least one flame-retardant, and a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride; and
applying the insulation material to an inner surface of a case of the rocket motor.

15. (Currently amended) The method of claim 14, wherein producing an insulation material ~~comprising at least one flame-retardant consisting essentially of a low-density ethylene propylene diene monomer polymer, at least one flame-retardant, and a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride~~ comprises producing an insulation material comprising at least one organic flame-retardant and at least one inorganic flame-retardant.

16. (Currently amended) The method of claim 14, wherein producing an insulation material ~~comprising a polymeric organic filler consisting essentially of a low-density ethylene propylene diene monomer polymer, at least one flame-retardant, and a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride~~ comprises producing an insulation material comprising a chlorinated hydrocarbon compound.

17. (Currently amended) The method of claim 14, wherein producing an insulation material ~~comprising a polymeric organic filler consisting essentially of a low-density ethylene propylene diene monomer polymer, at least one flame-retardant, and a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride~~ comprises producing an insulation material ~~comprising a noncyclic hydrocarbon that further includes at least one of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer.~~

18. (Currently amended) The method of claim 14, wherein producing an insulation material ~~comprising a polymeric organic filler consisting essentially of a low-density ethylene propylene diene monomer polymer, at least one flame-retardant, and a polymeric organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride~~ comprises producing an insulation material comprising at least one chlorine atom per repeat unit.

Claim 19 (Canceled)

20. (Original) The method of claim 14, further comprising:
curing the insulation material to form an insulation layer positioned between the inner surface of
the case of the rocket motor and a propellant.